



SEQUENCE LISTING

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KODAMA, YUKIKO
FUJIMURA, TOMOKO
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<120> SCREENING METHODS FOR GENES OF BREWING YEAST

<130> 47635-0002-00-US

<140> 10/791,791

<141> 2004-03-04

<150> JP 2003-057677

<151> 2003-03-04

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<170> PatentIn Ver. 3.3

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<211> 609

<212> DNA

<213> *Saccharomyces* sp.

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 35 40 45
 Phe Ala Ile Thr Cys Leu Ile Phe Ile Ser Val Gln Ala Leu Gln Leu
 50 55 60
 Leu His Met Val Ile Tyr Ile Lys Glu Lys Ser Phe Arg Asp Tyr Phe
 65 70 75 80
 Asn Glu Tyr Phe Arg Ser Leu Lys Tyr Asn Leu Phe Trp Gly Thr Tyr
 85 90 95
 Pro Met Gly Leu Val Thr Ile Ile Asn Phe Leu Gly Ala Leu Ser Gln
 100 105 110
 Lys Phe Thr Thr Thr Ser Pro Ala Asn Ala Lys His Leu Ile Ile Phe
 115 120 125
 Val Tyr Val Leu Trp Trp Tyr Asp Leu Ala Val Cys Leu Val Thr Ala
 130 135 140
 Trp Gly Ile Ser Phe Leu Ile Trp Gln Lys Tyr Tyr Phe Val Asp Gly
 145 150 155 160
 Val Gly Asn His Ser Ser Tyr Ser Ser Arg Met Ala Ser Asp His Met
 165 170 175
 Lys Ser Val Leu Leu Leu Asp Ile Ile Pro Leu Val Val Val Ala Ser
 180 185 190
 Ser Gly Gly Thr Phe Thr Met Ser Lys Ile Phe Gly Thr Thr Phe Asp
 195 200 205

Arg Asn Ile Gln Leu Leu Thr Leu Val Ile Cys Ala Leu Val Trp Leu
 210 215 220
 His Ala Leu Ile Phe Val Phe Ile Leu Ile Thr Ile Tyr Phe Trp Asn
 225 230 235 240
 Leu Tyr Ile Asn Lys Ile Pro Pro Met Thr Gln Val Phe Thr Leu Phe
 245 250 255
 Leu Val Leu Gly Pro Leu Gly Gln Gly Ser Phe Gly Ile Leu Leu Leu
 260 265 270
 Thr Asp Asn Ile Arg Lys Tyr Val Glu Lys Tyr Tyr Pro Arg Glu Asn
 275 280 285
 Ile Thr Met Glu Gln Glu Ile Leu Thr Ile Met Val Pro Trp Cys Phe
 290 295 300
 Lys Val Leu Gly Met Thr Phe Ala Leu Ala Leu Ile Ala Met Gly Tyr
 305 310 315 320
 Phe Phe Thr Val Ile Ser Leu Ile Ser Ile Leu Ser Tyr Tyr Asn Glu
 325 330 335
 Arg Val Val Asp Asn Glu Thr Gly Lys Val Lys Arg Ile Tyr Thr Phe
 340 345 350
 His Lys Gly Phe Trp Gly Met Thr Phe Pro Met Gly Thr Met Ser Leu
 355 360 365
 Gly Asn Glu Glu Leu Tyr Leu Gln Tyr Asn Gln Tyr Val Pro Leu Tyr
 370 375 380
 Ala Phe Arg Val Ile Ala Thr Ile Tyr Gly Gly Ile Cys Val Cys Trp
 385 390 395 400
 Ser Ile Leu Cys Leu Ser Cys Thr Leu Tyr Gly Tyr Leu Lys Thr Ile
 405 410 415
 Leu His Ala Ala Arg Lys Pro Ser Phe Leu Ser Glu Glu Gly Thr Glu
 420 425 430
 Lys Thr Val Asn Ser Pro Phe Asn Ser Ile Glu Ser Val Glu Glu Ser
 435 440 445
 Asn Ser Ala Ile Asp Ser Thr Tyr Leu Thr
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<210> 4
 <211> 202
 <212> PRT
 <213> *Saccharomyces* sp.

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 35 40 45
 Leu Gln Lys Asn Leu Ser Ala Tyr Arg Leu Asp Gly Asp Asn Ile Arg
 50 55 60
 Phe Gly Leu Asn Lys Asp Leu Gly Phe Ser Glu Lys Asp Arg Asn Glu
 65 70 75 80
 Asn Ile Arg Arg Ile Ser Glu Val Ser Lys Leu Phe Ala Asp Ser Cys
 85 90 95
 Ala Val Ser Ile Thr Ser Phe Ile Ser Pro Tyr Arg Val Asp Arg Asp
 100 105 110
 Arg Ala Arg Asp Leu His Lys Glu Ala Gly Leu Lys Phe Ile Glu Ile
 115 120 125
 Phe Val Asp Val Pro Leu Glu Val Ala Glu Gln Arg Asp Pro Lys Gly
 130 135 140
 Leu Tyr Lys Lys Ala Arg Glu Gly Val Ile Lys Glu Phe Thr Gly Ile
 145 150 155 160
 Ser Ala Pro Tyr Glu Ala Pro Lys Ala Pro Glu Leu His Leu Arg Thr
 165 170 175
 Asp Gln Lys Thr Val Glu Glu Cys Ala Ala Ile Ile Tyr Glu Tyr Leu
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 Val Asn Glu Lys Ile Ile Arg Lys His Leu
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<210> 5

<211> 15

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 5

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15

<210> 6

<211> 17

<212> DNA

<213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 oligonucleotide

 <400> 6
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<210> 7
 <211> 22
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 oligonucleotide

 <400> 7
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<210> 8
 <211> 29
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 oligonucleotide

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<210> 9
 <211> 36
 <212> DNA
 <213> Artificial Sequence

<220>
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 oligonucleotide

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<210> 10
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 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
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<210> 11
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 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 oligonucleotide

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<210> 12
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 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 oligonucleotide

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35

<210> 13
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 <212> DNA
 <213> Artificial Sequence

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 <223> Description of Artificial Sequence: Synthetic
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26

<210> 14
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 <212> DNA
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<220>
 <223> Description of Artificial Sequence: Synthetic
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26

<210> 15
 <211> 26
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 <223> Description of Artificial Sequence: Synthetic
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<210> 16
 <211> 26
 <212> DNA
 <213> Artificial Sequence

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 <223> Description of Artificial Sequence: Synthetic
 oligonucleotide

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<210> 17
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 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 oligonucleotide

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<210> 18
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 <223> Description of Artificial Sequence: Synthetic
 oligonucleotide

<400> 18
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<210> 20
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 oligonucleotide

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<210> 21
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<210> 22
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<210> 23
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 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
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<210> 24
 <211> 21
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 <213> Artificial Sequence

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 <223> Description of Artificial Sequence: Synthetic
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<210> 25
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<400> 25
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<210> 26
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 <213> Artificial Sequence

<220>
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<400> 26
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<400> 28
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18

<210> 29
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33

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30

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 <211> 33
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 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
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<210> 32
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<223> Description of Artificial Sequence: Synthetic
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<400> 32

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<210> 33

<211> 25

<212> DNA

<213> Artificial Sequence

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<223> Description of Artificial Sequence: Synthetic
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<210> 34

<211> 1377

<212> DNA

<213> Saccharomyces sp.

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<210> 35

<211> 609

<212> DNA

<213> Saccharomyces sp.

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<210> 36

<211> 25

<212> DNA

<213> Artificial Sequence

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oligonucleotide

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gaatcaatta acatatgggtt tctta

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<210> 37

<211> 25

<212> DNA

<213> Artificial Sequence

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<223> Description of Artificial Sequence: Synthetic
oligonucleotide

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gaatcaatta acatatgggtt tctta

25